

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

002120
Licensee

1. Indiana University Health
Bloomington Hospital

2. P.O. Box 1149
Bloomington, IN 47402

515602
In accordance with the letter dated
July 9, 2011,

3. License number 13-10408-02 is amended in its entirety to read as follows:

4. Expiration date November 30, 2020

5. Docket No. 030-01644
Reference No.

6. Byproduct, source, and/or special nuclear material

A. Any byproduct material permitted by 10 CFR 35.100

B. Any byproduct material permitted by 10 CFR 35.200

C. Any byproduct material permitted by 10 CFR 35.300

D. Any byproduct material permitted by 10 CFR 35.400

E. Any byproduct material permitted by 10 CFR 31.11

7. Chemical and/or physical form

A. Any

B. Any

C. Any

D. Sealed sources (IsoRay, Model CS-1, North American Scientific, Inc., Model MED 3631, and MED 3633, Best Medical International, Inc., Model 2300 Series, 3M Health Physics Services, Model 6711; Bard Brachytherapy Inc. Model STM 1251; Theragenics Corp. TheraSeed Model 200)

E. Prepackaged Kits

8. Maximum amount that licensee may possess at any one time under this license

A. As needed

B. As needed

C. As needed (not to exceed one curie of iodine-131)

D. Not to exceed 500 millicuries, for iodine-125 and not to exceed 1600 millicuries for palladium-103

E. 2 millicuries

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
13-10408-02Docket or Reference Number
030-01644

Amendment No. 67

9. Authorized Use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
- B. Any imaging and localization study permitted by 10 CFR 35.200.
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.
- E. In-vitro studies.

CONDITIONS

- 10. A. Licensed material shall be used only at the licensee's facilities located at 605-625 West Second Street, Bloomington, Indiana.
- B. Licensed material in Item 6.C., limited to strontium-89, phosphorus-32, and samarium-153, may be received and used at the licensee's facilities located at 2620 Cota Drive, Bloomington, Indiana.
- 11. The Radiation Safety Officer for this license is Patrick J. Byrne, DABR, CHP, DABSNM.
- 12. Licensed material is only authorized for use by, or under the supervision of:
 - A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.
 - B. The following individuals are authorized users for medical use as indicated:

Authorized UsersMaterial and Use

Bharati R. Kharkar, M.D.

10 CFR 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), 35.400, and 31.11.

David Y. Lee, M.D.

10 CFR 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), 35.400, and 31.11.

Sean M. Flynn, M.D.

10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.

Douglas D. Geiger, M.D.

10 CFR 35.100, 35.200, and 31.11.

Bruce N. Monson, M.D.

10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.

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Amendment No. 67

Authorized UsersMaterial and Use

Mark A. Bisesi, M.D.	10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide-131 in quantities less than or equal to 33 millicuries), and 31.11.
Chris W. McGary, M.D.	10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.
T. L. Megremis, M.D.	10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.
John Alexander, M.D.	10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.
Jonathan A. Staser, M.D.	10 CFR 35.100, 35.200, 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries), and 31.11.
Gregory M. Sutliff, M.D.	10 CFR 35.100 and 35.200.
Jennifer Peterson Goldspiel, M.D.	10 CFR 35.100 and 35.200.
Per Amundsen, M.D.	10 CFR 35.100, 35.200, and 35.300 (for iodine-131, oral administration of sodium iodide I-131 in quantities less than or equal to 33 millicuries).

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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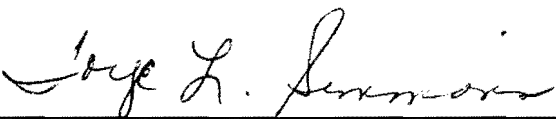
Amendment No. 67

15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated June 11, 2010.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JUL 29 2011

By 
Toy L. Simmons
Materials Licensing Branch
Region III